

Contract No: WSBU 02-2025/26: TENDER FOR THE APPOINTMENT OF CONTRACTORS FOR THE REPLACEMENT OF DEFICIENT SEWERS WITH COMBINATION OF TRENCHLESS AND CONVENTIONAL METHODS IN THE CITY OF TSHWANE, (AREA-C): THREE (3) YEAR PERIOD, AS AND WHEN REQUIRED.

## SERIES O: GENERAL - GENERAL REQUIREMENTS AND CHARGES : SECTION 001

| Item          | Description                                                                                                                                                                                      | Unit                  | Qty  | Rate      | Amount       |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------|-----------|--------------|
| B001.01       | Preliminary and General Charges(as specified in Part C3.8 Corrections and Amendments to the Standard Specifications, Section 001: General requirement and Charges, B31: Measurement and Payment) |                       |      |           |              |
|               | B001.01.01 Fixed charges                                                                                                                                                                         | month/per project     | 72   |           |              |
|               | B001.01.02 Time-related charges                                                                                                                                                                  | month/per project     | 72   |           |              |
|               | B001.01.03 The Contractor's establishment on site                                                                                                                                                | Number                | 9    |           |              |
| B001.03<br>Li | Excavate by hand to expose existing services, and backfill                                                                                                                                       | m3                    | 50   |           |              |
| B001.04       | Compliance with the Occupational Health and Safety Act and applicable regulations                                                                                                                |                       |      |           |              |
|               | B001.04.01 Provision of Health and Safety Plan                                                                                                                                                   | Lsum/per project      | 9    |           |              |
|               | B001.04.02 Provision of Health and Safety file                                                                                                                                                   | Lsum/per project      | 9    |           |              |
|               | B001.04.03 Provision of construction supervisors                                                                                                                                                 | per month/per project | 36   |           |              |
|               | B001.04.04 Provision of a Safety Officer (full time)                                                                                                                                             | per month/per project | 36   |           |              |
|               | B001.04.08.01 Implementation of OHS Act (including provision of personal protective clothing, equipment, training, safety fences, etc.)                                                          | Lsum/per project      | 3    |           |              |
| B001.05       | Community Liason officer                                                                                                                                                                         |                       |      |           |              |
|               | B001.05 .01 Salary                                                                                                                                                                               | per month/per project | 72   | 16 928.00 | 1 218 816.00 |
|               | B001.05 .02 Charges required by the Contractor on subitem B001.05.01 above                                                                                                                       | %                     | 1    |           |              |
| B001.06<br>SC | Security guards(as specified in Part C3.8 Corrections and Amendments to the Standard Specifications, Section 001: General requirement and Charges, B31: Appointment of Local Security Company)   | per month/per site    | 72   |           |              |
| B001.07       | Provision of construction and materials manager                                                                                                                                                  | per month/per project | 72   |           |              |
| B001.09       | Training of targeted subcontractors and labourers                                                                                                                                                |                       |      |           |              |
|               | B001.09 .01 Training of targeted labourers                                                                                                                                                       | hour                  | 27   |           |              |
|               | B001.09 .02 Charges required by the Contractor on sub-item B001.09.01 above                                                                                                                      | %                     | 1    |           |              |
| B001.10       | Sums stated provisionally                                                                                                                                                                        |                       |      |           |              |
|               | B001.10.01 Expenditure on daywork items (wages paid to workmen)                                                                                                                                  | hour                  | 900  |           |              |
|               | B001.10.02 Expenditure on daywork items (plant cost)                                                                                                                                             | hour                  | 300  |           |              |
| B001.11       | Sums stated provisionally                                                                                                                                                                        |                       |      |           |              |
|               | B001.11.01 Materials to be used during the excavation of dayworks                                                                                                                                | Lsum/per project      | 9    |           |              |
|               | B001.11.02 Extra-Over on B001.06.01 for mark-up                                                                                                                                                  | %                     | 1    |           |              |
| B001.12       | DAYWORKS                                                                                                                                                                                         |                       |      |           |              |
|               | B001.12.01 Labour                                                                                                                                                                                |                       |      |           |              |
|               | B001.12.01.01 Qualified Artisans (9 hour/day)                                                                                                                                                    | w/day                 | 2250 |           |              |
|               | B001.12.01.02 Foreman (9 hour/day)                                                                                                                                                               | w/day                 | 750  |           |              |
|               | B001.12.01.03 Semi-skilled (9 hour/day)                                                                                                                                                          | w/day                 | 3000 |           |              |
|               | B001.12.01.04 Labourer (9 hour/day)                                                                                                                                                              | w/day                 | 9000 |           |              |
|               | B001.12.02 Plant Hire : Work Rates on Site                                                                                                                                                       |                       |      |           |              |
| carry forward |                                                                                                                                                                                                  |                       |      |           |              |

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## SERIES O: GENERAL - GENERAL REQUIREMENTS AND CHARGES : SECTION 001

| Item                             | Description                                | Unit | Qty  | Rate            | Amount |
|----------------------------------|--------------------------------------------|------|------|-----------------|--------|
|                                  |                                            |      |      | brought forward |        |
|                                  | B001.12.02.01 Tipper Truck                 |      |      |                 |        |
|                                  | B001.12.02.01.01 1 m3 (small)              | hour | 100  |                 |        |
|                                  | B001.12.02.01.02 3 m3 (large)              | hour | 100  |                 |        |
|                                  | B001.12.02.02 Flatbed Truck                |      |      |                 |        |
|                                  | B001.12.02.02.01 1 ton (small)             | hour | 100  |                 |        |
|                                  | B001.12.02.02.02 3 ton (large)             | hour | 100  |                 |        |
|                                  | B001.12.02.03 LDV (0.5 ton)                | hour | 100  |                 |        |
|                                  | B001.12.02.04 Wheel Loader                 | hour | 100  |                 |        |
|                                  | B001.12.02.05 Motor Grader                 | hour | 100  |                 |        |
|                                  | B001.12.02.06 Back-actor                   | hour | 100  |                 |        |
|                                  | B001.12.02.07 Tractor Loader-Backhoe       | hour | 1000 |                 |        |
|                                  | B001.12.02.08 Pedestrian Roller            |      |      |                 |        |
|                                  | B001.12.02.08.01 Bomag BW 90               | hour | 100  |                 |        |
|                                  | B001.12.02.08.02 Bomag BW 61               | hour | 100  |                 |        |
|                                  | B001.12.02.10 Concrete Mixer               |      |      |                 |        |
|                                  | B001.12.02.10.01 170 l (small)             | hour | 100  |                 |        |
|                                  | B001.12.02.10.02 280 l (large)             | hour | 100  |                 |        |
|                                  | B001.12.02.10.03 Miscellaneous             |      |      |                 |        |
|                                  | B001.12.02.10.03.01 Compressor 250 Cfm.    | hour | 100  |                 |        |
|                                  | B001.12.02.10.03.02 Water Pump with 25 l/s | hour | 100  |                 |        |
|                                  | B001.12.02.10.03.03 Water Pump with 10 l/s | hour | 100  |                 |        |
| Total carried forward to Summary |                                            |      |      |                 |        |

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## SERIES 0 : GENERAL - ENGINEERS ACCOMMODATION : SECTION 002

| Item                             | Description                        | Unit              | Qty | Rate | Amount |
|----------------------------------|------------------------------------|-------------------|-----|------|--------|
| B002.01                          | Services                           |                   |     |      |        |
|                                  | 002.01.01 Services for Office      | month/per project | 36  |      |        |
| B002.02<br>SC/Li                 | Maintenance of area around offices | month/per project | 36  |      |        |
| Total carried forward to Summary |                                    |                   |     |      |        |

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## SERIES 1 : ANCILLARY WORKS - SITE CLEARING AND GRUBBING : SECTION 101

| Item                             | Description                                                                 | Unit | Qty  | Rate | Amount |
|----------------------------------|-----------------------------------------------------------------------------|------|------|------|--------|
| 101.01                           | Clearing and Grubbing                                                       |      |      |      |        |
| SC/Li                            | 101.01.01 Areas                                                             | m2   | 1500 |      |        |
| 101.02                           | Cutting and removal of large trees with a girth                             |      |      |      |        |
| SC/Li                            | 101.02.01 Exceeding 1m to 2m                                                | No   | 3    |      |        |
| SC/Li                            | 101.02.02 Exceeding 2m to 3m                                                | No   | 2    |      |        |
| 101.03                           | Grubbing and removal of large stumps and roots or large trees with a girth: |      |      |      |        |
| SC/Li                            | 101.03.01 Exceeding 1m to 2m                                                | No   | 5    |      |        |
| SC/Li                            | 101.03.02 Exceeding 2m to 3m                                                | No   | 5    |      |        |
| Total carried forward to Summary |                                                                             |      |      |      |        |

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## SERIES 1 : ANCILLARY WORKS - ACCOMMODATION OF TRAFFIC : SECTION 102

| Item                             | Description                                                                    | Unit | Qty | Rate | Amount |
|----------------------------------|--------------------------------------------------------------------------------|------|-----|------|--------|
| 102.12                           | Provision of temporary bridges for maintaining access to properties            |      |     |      |        |
| SC                               | 102.12.01 Temporary pedestrain bridges                                         | No   | 25  |      |        |
| SC                               | 102.12.02 Temporary vehicular bridges                                          | No   | 10  |      |        |
| 102.13                           | Moving of temporary bridges to and their re-erection in entirely new positions |      |     |      |        |
| SC/Li                            | 102.13.01 Temporary pedestrian bridges                                         | No   | 10  |      |        |
| SC/Li                            | 102.13.02 Temporary vehicular bridges                                          | No   | 10  |      |        |
| Total carried forward to Summary |                                                                                |      |     |      |        |

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| SERIES 2 : EARTHWORKS - GENERAL : SECTION 201 |                                   |      |     |      |        |
|-----------------------------------------------|-----------------------------------|------|-----|------|--------|
| Item                                          | Description                       | Unit | Qty | Rate | Amount |
| 201.02                                        | Temporary stockpiling of material | m3   | 500 |      |        |
| Total carried forward to Summary              |                                   |      |     |      |        |

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## SERIES 2 : EARTHWORKS - TRENCHING : SECTION 202

| Item                             | Description                                                                                                     | Unit | Qty    | Rate | Amount |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------|------|--------|------|--------|
| 202.01<br>(LI/SC)                | Trench excavations.                                                                                             |      |        |      |        |
| (LI/SC)                          | 202.01.01 Up to 1.0m deep                                                                                       | m3   | 1 742  |      |        |
|                                  | 202.01.02 Over 1.0m and up to 2m deep                                                                           | m3   | 20 964 |      |        |
|                                  | 202.01.03 Over 2m and up to 3m deep                                                                             | m3   | 7 223  |      |        |
|                                  | 202.01.04 Over 3m and up to 4m deep                                                                             | m3   | 4 081  |      |        |
|                                  | 202.01.05 Over 4m and up to 5m deep                                                                             | m3   | 3 906  |      |        |
| 202.02<br>(LI/SC)                | Extra over item 202.01, 202.03, 202.04 for excavating in-                                                       |      |        |      |        |
|                                  | 202.02.02 Hard material                                                                                         | m2   | 25     |      |        |
| 202.03<br>(LI/SC)                | Excavations outside the normal trench profile                                                                   | m3   | 814    |      |        |
| 202.04<br>(LI/SC)                | Hand excavation (extra over item 202.01)                                                                        | m3   | 150    |      |        |
| 202.06<br>(LI/SC)                | The backfilling of trenches (excluding backfill around the pipe barrel) with material obtained from excavations | m3   | 21 842 |      |        |
| 202.07<br>(LI/SC)                | Extra over item 202.06 for using backfill material obtained -                                                   |      |        |      |        |
|                                  | 202.07.01 From borrow areas                                                                                     | m3   | 4 375  |      |        |
|                                  | 202.07.02 From sources provided by the Contractor                                                               | m3   | 1 089  |      |        |
| Total carried forward to Summary |                                                                                                                 |      |        |      |        |

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## SERIES 3 : SEWERS - CONSTRUCTION : SECTION 302

| Item          | Description                                                                       | Unit | Qty   | Rate | Amount |
|---------------|-----------------------------------------------------------------------------------|------|-------|------|--------|
| 302.01        | Supplying, laying, jointing of sewer pipes irrespective of depth/width of trench. |      |       |      |        |
|               | 302.01.01. 160mm Class PE100 PN 6, SDR26                                          | m    | 1 304 |      |        |
|               | 302.01.02. 200mm Class PE100 PN 6, SDR26                                          | m    | 145   |      |        |
|               | 302.01.03. 225mm Class PE100 PN 6, SDR26                                          | m    | 2     |      |        |
|               | 302.01.04. 250mm Class PE100 PN 6, SDR26                                          | m    | 7     |      |        |
|               | 302.01.05. 280mm Class PE100 PN 6, SDR26                                          | m    | 2     |      |        |
|               | 302.01.06. 315mm Class PE100 PN 6, SDR26                                          | m    | 54    |      |        |
|               | 302.01.07. 355mm Class PE100 PN 6, SDR26                                          | m    | 14    |      |        |
|               | 302.01.08. 400mm Class PE100 PN 6, SDR26                                          | m    | 3     |      |        |
|               | 302.01.09. 450mm Class PE100 PN 6, SDR26                                          | m    | 8     |      |        |
|               | 302.01.10. 500mm Class PE100 PN 6, SDR26                                          | m    | 3     |      |        |
|               | 302.01.11. 560mm Class PE100 PN 6, SDR26                                          | m    | 3     |      |        |
|               | 302.01.12. 630mm Class PE100 PN 6, SDR26                                          | m    | 3     |      |        |
|               | 302.01.13. 800mm Class PE100 PN 6, SDR26                                          | m    | 3     |      |        |
|               | 302.01.14. 900mm Class PE100 PN 6, SDR26                                          | m    | 3     |      |        |
|               | 302.01.15. 1 200mm Class PE100 PN 6, SDR26                                        | m    | 3     |      |        |
| 302.02        | Construction of pipe bedding                                                      |      |       |      |        |
|               | 302.02.01 Class B bedding                                                         |      |       |      |        |
|               | 302.02.01.01. 160mm Class PE100 PN 6, SDR26                                       | m    | 1 304 |      |        |
|               | 302.02.02. 200mm Class PE100 PN 6, SDR26                                          | m    | 145   |      |        |
|               | 302.02.03. 225mm Class PE100 PN 6, SDR26                                          | m    | 2     |      |        |
|               | 302.02.04. 250mm Class PE100 PN 6, SDR26                                          | m    | 7     |      |        |
|               | 302.02.05. 280mm Class PE100 PN 6, SDR26                                          | m    | 2     |      |        |
|               | 302.02.06. 315mm Class PE100 PN 6, SDR26                                          | m    | 54    |      |        |
|               | 302.02.07. 355mm Class PE100 PN 6, SDR26                                          | m    | 14    |      |        |
|               | 302.02.08. 400mm Class PE100 PN 6, SDR26                                          | m    | 3     |      |        |
|               | 302.02.09. 450mm Class PE100 PN 6, SDR26                                          | m    | 8     |      |        |
|               | 302.02.10. 500mm Class PE100 PN 6, SDR26                                          | m    | 3     |      |        |
|               | 302.02.11. 560mm Class PE100 PN 6, SDR26                                          | m    | 3     |      |        |
|               | 302.02.12. 630mm Class PE100 PN 6, SDR26                                          | m    | 3     |      |        |
|               | 302.02.13. 800mm Class PE100 PN 6, SDR26                                          | m    | 3     |      |        |
|               | 302.02.14. 900mm Class PE100 PN 6, SDR26                                          | m    | 3     |      |        |
|               | 302.02.15. 1 200mm Class PE100 PN 6, SDR26                                        | m    | 3     |      |        |
| carry forward |                                                                                   |      |       |      |        |

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## SERIES 3 : SEWERS - CONSTRUCTION : SECTION 302

| Item                             | Description                                                                                      | Unit | Qty   | Rate | Amount |
|----------------------------------|--------------------------------------------------------------------------------------------------|------|-------|------|--------|
| brought forward                  |                                                                                                  |      |       |      |        |
| 302.09                           | Construction of manholes up to 1.0m deep                                                         |      |       |      |        |
| SC                               | 302.09.01 For sewers 300mm in diameter and smaller                                               |      |       |      |        |
|                                  | 302.09.01.01.01 Type III                                                                         | No   | 25    |      |        |
|                                  | Extra over 302.06 for construction of manholes in excess of 1.0m deep                            |      |       |      |        |
| 302.10                           | 302.10.01 For sewers 300mm in diameter and smaller                                               |      |       |      |        |
| SC                               | 302.10.01.01 Type III                                                                            | m    | 25    |      |        |
| SC                               | 302.09.01 For sewers larger than 300mm in diameter                                               |      |       |      |        |
|                                  | 302.09.01.01.01 Type III                                                                         |      | 10    |      |        |
|                                  | Extra over 302.06 for construction of manholes in excess of 1.0m deep                            |      | 10    |      |        |
| 302.1                            | 302.10.01 For sewers larger than 300mm in diameter                                               |      | 10    |      |        |
| SC                               | 302.10.01.01 Type III                                                                            |      | 10    |      |        |
| 302.12                           | Supplying and installing manhole covers and frames                                               |      |       |      |        |
| SC                               | 302.12.01 SANS 558 Type 4 circular                                                               | No   | 5 152 |      |        |
|                                  | 302.12.02 SANS 558 Type 2A circular                                                              | No   | 4 184 |      |        |
|                                  | 302.12.03 Precast concrete cover with type 2A CI frame                                           | No   | 10    |      |        |
|                                  | 302.12.04 Precast concrete cover with type 4 CI frame                                            | No   | 8     |      |        |
| 302.14                           | Supplying and placing selected backfill material around and up to 300mm above pipe barrels using |      |       |      |        |
|                                  | 302.14.01 Excavated material                                                                     | m3   | 1 500 |      |        |
|                                  | 302.14.02 Imported material                                                                      | m3   | 1 000 |      |        |
| B302.23<br>SC                    | Supply and install lamphole covers and frames for rodding eyes                                   | No   | 10    |      |        |
| Total carried forward to Summary |                                                                                                  |      |       |      |        |

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## SERIES 5 : DRAINAGE AND EROSION PROTECTION - KERBING AND CHANNELLING : SECTION 503

| Item                             | Description                         | Unit | Qty | Rate | Amount |
|----------------------------------|-------------------------------------|------|-----|------|--------|
| 503.01                           | Concrete kerbing                    |      |     |      |        |
|                                  | 503.01.01 to match existing kerbing | m    | 50  |      |        |
| Total carried forward to Summary |                                     |      |     |      |        |

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## SERIES 6 : ROAD AND PARKING AREAS - GRAVEL PAVEMENT LAYERS : SECTION 601

| Item                             | Description                                                                               | Unit | Qty | Rate | Amount |
|----------------------------------|-------------------------------------------------------------------------------------------|------|-----|------|--------|
| 601.02                           | Gravel layers constructed from material obtained from borrow pits:                        |      |     |      |        |
|                                  | 601.02.01 Subgrade                                                                        |      |     |      |        |
|                                  | 601.02.01.01 Compacted to 90% of modified AASHTO density                                  | m3   | 15  |      |        |
|                                  | 601.02.01.02 Compacted to 93% of modified AASHTO density                                  | m3   | 15  |      |        |
|                                  | 601.02.01.03 Compacted to 95% of modified AASHTO density                                  | m3   | 15  |      |        |
|                                  | 601.02.02 Subbase                                                                         |      |     |      |        |
|                                  | 601.02.02.01 Compacted to 95% of modified AASHTO density                                  | m3   | 15  |      |        |
|                                  | 601.02.02.02 Compacted to 97% of modified AASHTO density                                  | m3   | 15  |      |        |
|                                  | 601.02.03 Base                                                                            |      |     |      |        |
|                                  | 601.02.03.01 Compacted to 98% of modified AASHTO density                                  | m3   | 15  |      |        |
| 601.03                           | Gravel layers constructed from material obtained from material obtained from excavations: |      |     |      |        |
|                                  | 601.03.01 Subgrade                                                                        |      |     |      |        |
|                                  | 601.03.01.01 Compacted to 90% of modified AASHTO density                                  | m3   | 10  |      |        |
|                                  | 601.03.01.02 Compacted to 93% of modified AASHTO density                                  | m3   | 10  |      |        |
|                                  | 601.03.01.03 Compacted to 95% of modified AASHTO density                                  | m3   | 10  |      |        |
|                                  | 601.03.02 Subbase                                                                         |      |     |      |        |
|                                  | 601.03.02.01 Compacted to 95% of modified AASHTO density                                  | m3   | 10  |      |        |
|                                  | 601.03.02.02 Compacted to 97% of modified AASHTO density                                  | m3   | 10  |      |        |
|                                  | 601.03.03 Base                                                                            |      |     |      |        |
|                                  | 601.03.03.01 Compacted to 98% of modified AASHTO density                                  | m3   | 10  |      |        |
| Total carried forward to Summary |                                                                                           |      |     |      |        |

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## SERIES 6 : ROAD AND PARKING AREAS - BASE AND ASPHALT SURFACING : SECTION 606

| Item                             | Description                                      | Unit | Qty | Rate | Amount |
|----------------------------------|--------------------------------------------------|------|-----|------|--------|
| 606.01                           | Asphalt base                                     |      |     |      |        |
|                                  | 606.01.01 Prime the stabilised area 60% emulsion | m2   | 250 |      |        |
| 606.02                           | Asphalt surfacing (50mm)                         |      |     |      |        |
|                                  | 606.02.01 Continuously graded                    | m2   | 250 |      |        |
| Total carried forward to Summary |                                                  |      |     |      |        |

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SERIES 6 : ROAD AND PARKING AREAS - ROAD AND SURFACING REHABILITATION AND OVERLAY : SECTION 608

| Item                             | Description                                                                    | Unit | Qty | Rate | Amount |
|----------------------------------|--------------------------------------------------------------------------------|------|-----|------|--------|
| 608.04                           | Treatment type 2 (crusher-sand seal) using :                                   |      |     |      |        |
|                                  | 608.04.01 60% spray-grade emulsion                                             | ℓ    | 40  |      |        |
|                                  | 608.04.02 60% An application of doubly washed slurry-seal aggregate            | m3   | 15  |      |        |
| 608.10                           | Single-seal surface treatment where 80/100 penetration grade bitumen is used - |      |     |      |        |
|                                  | 608.10.01 with 6,7 mm aggregate                                                | m2   | 250 |      |        |
|                                  | 608.10.02 with 9,5 mm aggregate                                                | m2   | 150 |      |        |
| 608.14                           | Application of fog spray                                                       |      |     |      |        |
|                                  | 608.14.01 60%-spray-grade emulsion                                             | ℓ    | 40  |      |        |
|                                  | 608.14.02 30%-spray-grade emulsion                                             | ℓ    | 30  |      |        |
| Total carried forward to Summary |                                                                                |      |     |      |        |

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SERIES 6:ROAD AND PARKING AREAS - SEGMENTED PAVING : SECTION 609

| Item                             | Description                                                                                   | Unit | Qty | Rate | Amount |
|----------------------------------|-----------------------------------------------------------------------------------------------|------|-----|------|--------|
| 609.05                           | Construction of segmented paving with material supplied by the Employer or from the stockpile |      |     |      |        |
| SC                               | 609.05.01 Segmental-block paving                                                              | m2   | 250 |      |        |
|                                  | 609.05.02 Concrete-slab paving                                                                | m2   | 250 |      |        |
| 609.06                           | Extra over on item B609.05.01 for the supply of new material                                  | m2   | 150 |      |        |
| 609.07                           | Extra over on item B609.05.02 for the supply of new material                                  | m2   | 150 |      |        |
| Total carried forward to Summary |                                                                                               |      |     |      |        |

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## CLEANING OF SEWERS : SECTION B810

| Item          | Description                                                                                                                                              | Unit | Qty  | Rate | Amount |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|--------|
| B810.01       | Removal of sand, silt, roots, etc. (all causes) from sewer pipes using various rodding equipment for pipe diameter::                                     |      |      |      |        |
| SC            | B810.01.01 100mm inside diameter                                                                                                                         | m    | 500  |      |        |
|               | B810.01.02 150mm inside diameter                                                                                                                         | m    | 5000 |      |        |
|               | B810.01.03 200mm inside diameter                                                                                                                         | m    | 500  |      |        |
|               | B810.01.04 225mm inside diameter                                                                                                                         | m    | 500  |      |        |
|               | B810.01.05 300mm inside diameter                                                                                                                         | m    | 1500 |      |        |
|               | B810.01.06 350mm nominal diameter                                                                                                                        | m    | 500  |      |        |
|               | B810.01.07 375mm nominal diameter                                                                                                                        | m    | 500  |      |        |
|               | B810.01.08 400mm nominal diameter                                                                                                                        | m    | 500  |      |        |
|               | B810.01.09 425mm nominal diameter                                                                                                                        | m    | 500  |      |        |
| B810.02       | Removal of isolated point blockages from sewer pipes using various rodding equipment for pipe diameter:                                                  |      |      |      |        |
| SC            | B810.02.01 100mm inside diameter                                                                                                                         | No   | 50   |      |        |
|               | B810.02.02 150mm inside diameter                                                                                                                         | No   | 100  |      |        |
|               | B810.02.03 200mm inside diameter                                                                                                                         | No   | 50   |      |        |
|               | B810.02.04 225mm inside diameter                                                                                                                         | No   | 50   |      |        |
|               | B810.02.05 300mm inside diameter                                                                                                                         | No   | 100  |      |        |
|               | B810.02.06 350mm nominal diameter                                                                                                                        | No   | 50   |      |        |
|               | B810.02.07 375mm nominal diameter                                                                                                                        | No   | 50   |      |        |
|               | B810.02.08 400mm nominal diameter                                                                                                                        | No   | 50   |      |        |
|               | B810.02.09 425mm nominal diameter                                                                                                                        | No   | 50   |      |        |
| B810.04       | Removal of sand, silt, roots, etc. (all causes) using high pressure water jetting equipment at ±450Bar pressure for pipe diameter                        |      |      |      |        |
|               | B810.04.01 100mm                                                                                                                                         | m    | 500  |      |        |
|               | B810.04.02 150mm                                                                                                                                         | m    | 1000 |      |        |
|               | B810.04.03 230mm                                                                                                                                         | m    | 500  |      |        |
|               | B810.04.04 300mm                                                                                                                                         | m    | 250  |      |        |
|               | B810.04.05 350mm                                                                                                                                         | m    | 100  |      |        |
|               | B810.04.06 375mm                                                                                                                                         | m    | 100  |      |        |
|               | B810.04.07 400mm                                                                                                                                         | m    | 100  |      |        |
|               | B810.04.08 450mm                                                                                                                                         | m    | 100  |      |        |
|               | B810.04.09 525mm                                                                                                                                         | m    | 100  |      |        |
|               | B810.04.10 >525mm                                                                                                                                        | m    | 100  |      |        |
| B810.05       | Removal of silt, fat, etc. (all causes) using combination of vacuum jetting methods apart from high pressure equipment for sewer pipes for pipe diameter |      |      |      |        |
|               | B810.05.01 100mm                                                                                                                                         | m    | 50   |      |        |
|               | B810.05.02 150mm                                                                                                                                         | m    | 500  |      |        |
|               | B810.05.03 230mm                                                                                                                                         | m    | 50   |      |        |
| carry forward |                                                                                                                                                          |      |      |      |        |

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## CLEANING OF SEWERS : SECTION B810

| Item                             | Description                                                                                                               | Unit | Qty | Rate | Amount |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|
| brought forward                  |                                                                                                                           |      |     |      |        |
|                                  | B810.05.04 300mm                                                                                                          | m    | 250 |      |        |
|                                  | B810.05.05 350mm                                                                                                          | m    | 50  |      |        |
|                                  | B810.05.06 375mm                                                                                                          | m    | 50  |      |        |
|                                  | B810.05.07 400mm                                                                                                          | m    | 50  |      |        |
|                                  | B810.05.08 450mm                                                                                                          | m    | 50  |      |        |
|                                  | B810.05.09 525mm                                                                                                          | m    | 50  |      |        |
|                                  | B810.05.10 >525mm                                                                                                         | m    | 50  |      |        |
| B810.06                          | Combination truck with a storage size of 10 kl or better, complete with high pressure washing and vacuum suction facility | day  | 20  |      |        |
| B810.07                          | Water tanker, 10 kl                                                                                                       | day  | 20  |      |        |
| Total carried forward to Summary |                                                                                                                           |      |     |      |        |

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## CCTV INSPECTION OF SEWERS : SECTION B811

| Item                             | Description                                                                           | Unit | Qty  | Rate | Amount |
|----------------------------------|---------------------------------------------------------------------------------------|------|------|------|--------|
| B811.01                          | Closed-Circuit Pan-and-Rotate Television Inspection of sewer lines for pipe diameter: |      |      |      |        |
|                                  | B811.01.01 100mm inside diameter                                                      | m    | 250  |      |        |
|                                  | B811.01.02 150mm inside diameter                                                      | m    | 1250 |      |        |
|                                  | B811.01.03 200mm inside diameter                                                      | m    | 100  |      |        |
|                                  | B811.01.04 225mm inside diameter                                                      | m    | 100  |      |        |
|                                  | B811.01.05 300mm inside diameter                                                      | m    | 500  |      |        |
|                                  | B811.01.06 350mm nominal diameter                                                     | m    | 100  |      |        |
|                                  | B811.01.07 375mm nominal diameter                                                     | m    | 100  |      |        |
|                                  | B811.01.08 400mm nominal diameter                                                     | m    | 100  |      |        |
|                                  | B811.01.09 >=425mm nominal diameter                                                   | m    | 100  |      |        |
| B811.04                          | Extra over item B811.01 Blocking of sewers before inspection for pipe diameter:       |      |      |      |        |
|                                  | B811.04.01 100-300mm                                                                  | No   | 50   |      |        |
|                                  | B811.04.02 325-600mm                                                                  | No   | 10   |      |        |
|                                  | B811.04.03 >600mm                                                                     | No   | 5    |      |        |
| Total carried forward to Summary |                                                                                       |      |      |      |        |

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## SERIES 8 : REHABILITATION/ REPLACEMENT OF SEWERS BY TRENCHLESS METHODS : SECTION B815

| Item            | Description                                                                                           | Unit | Qty    | Rate | Amount |
|-----------------|-------------------------------------------------------------------------------------------------------|------|--------|------|--------|
| B815.01         | Dealing with sewer flows by gravity pipe/temporary ditch diversion during sliplining and pipecracking | m    | 250    |      |        |
| B815.02         | Dealing with sewage flow by overpumping with a water pump able to handle peak dry weather flow        |      |        |      |        |
|                 | B815.02.01 Up to 15 litres /second                                                                    | hrs  | 350    |      |        |
|                 | B815.02.02 Between 15 and 25 litres /second                                                           | hrs  | 350    |      |        |
| B815.03 (LI/SC) | Breaking and repairing of access openings through manhole walls per manhole                           | No.  | 25     |      |        |
| B815.04 (LI/SC) | Breaking and repairing benching and channeling in existing manhole to accommodate                     | No.  | 25     |      |        |
| B815.05         | Supply and installation of pipes.                                                                     |      |        |      |        |
|                 | B815.05.01. 160mm Class PE100 PN 6, SDR26 into existing 100mm Clay/uPVC/PF                            | m    | 4 800  |      |        |
|                 | B815.05.02. 160mm Class PE100 PN 6, SDR26 into existing 150-160mm Clay/uPVC/PF                        | m    | 11 200 |      |        |
|                 | B815.05.03. 200mm Class PE100 PN 6, SDR26 into existing 110-160mm Clay/uPVC/PF - upsize               | m    | 2 000  |      |        |
|                 | B815.05.04. 225 mm Class PE100, PN 6, SDR26 into existing 180-210mm Clay/uPVC/PF                      | m    | 50     |      |        |
|                 | B815.05.05. 250 mm Class PE100, PN 6, SDR26 into existing 220-230mm Clay/uPVC/PF                      | m    | 58     |      |        |
|                 | B815.05.06. 250mm Class PE100 PN 6, SDR26 into existing 110-160mm Clay/uPVC/PF - upsize               | m    | 58     |      |        |
|                 | B815.05.07. 250mm Class PE100 PN 6, SDR26 into existing 200mm Clay/uPVC/PF - upsize                   | m    | 58     |      |        |
|                 | B815.05.08. 280 mm Class PE100, PN 6, SDR26 into existing 240-260mm Clay/uPVC/PF                      | m    | 20     |      |        |
|                 | B815.05.09. 280 mm Class PE100, PN 6, SDR26 into existing 200mm Clay/uPVC/PF - upsize                 | m    | 750    |      |        |
|                 | B815.05.10. 315mm Class PE100, PN 6, SDR26 into existing 230mm Clay/uPVC/PF - upsize                  | m    | 150    |      |        |
|                 | B815.05.11. 355 mm Class PE100, PN 6, SDR26 into existing 280-330mm Clay/uPVC/PF                      | m    | 50     |      |        |
|                 | B815.05.12. 400mm Class PE100, PN 6, SDR26 into existing 340-375mm Clay/uPVC/PF                       | m    | 100    |      |        |
|                 | B815.05.13. 450mm Class PE100, PN 6, SDR26 into existing 380-420mm Clay/uPVC/PF                       | m    | 10     |      |        |
|                 | B815.05.14. 500mm Class PE100, PN 6, SDR26 into existing 430-460mm Clay/uPVC/PF                       | m    | 10     |      |        |
|                 | B815.05.15. 560mm Class PE100, PN 6, SDR26 into existing 470-520mm Clay/uPVC/PF                       | m    | 10     |      |        |
|                 | B815.05.16. 630mm Class PE100, PN 6, SDR26 into existing 470-520mm Clay/uPVC/PF                       | m    | 10     |      |        |
| B815.06         | Service reconnections                                                                                 |      |        |      |        |
| (LI/SC)         | B815.06.01 For newly laid 160mm OD                                                                    |      |        |      |        |
|                 | B815.06.01.01 With Type B connection (Without lamphole and previously called Type 1)                  | No.  | 250    |      |        |
|                 | B815.06.01.02 With Type A or Type C connections (Previously called Type 2 or Type 3)                  | No.  | 250    |      |        |
|                 | B815.06.01.03 With Type B connection (Previously called Type 4)                                       | No.  | 250    |      |        |
| (LI/SC)         | B815.06.02 For newly laid 200 - 300mm OD                                                              |      |        |      |        |
|                 | B815.06.02.01 With Type B connection (Without lamphole and previously called Type 1)                  | No.  | 25     |      |        |
|                 | B815.06.02.02 With Type A or Type C connections (Previously called Type 2 or Type 3)                  | No.  | 25     |      |        |
|                 | B815.06.02.03 With Type B connection (Previously called Type 4)                                       | No.  | 25     |      |        |
| (LI/SC)         | B815.06.03 For newly laid >=315mm OD                                                                  |      |        |      |        |
|                 | B815.06.03.01 With Type B connection (Without lamphole and previously called Type 1)                  | No.  | 5      |      |        |
|                 | B815.06.03.02 With Type A or Type C connections (Previously called Type 2 or Type 3)                  | No.  | 5      |      |        |
|                 | B815.06.03.03 With Type B connection (Previously called Type 4)                                       | No.  | 5      |      |        |
| carry forward   |                                                                                                       |      |        |      |        |

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## SERIES 8 : REHABILITATION/ REPLACEMENT OF SEWERS BY TRENCHLESS METHODS : SECTION B815

| Item               | Description                                                                                          | Unit | Qty | Rate | Amount |
|--------------------|------------------------------------------------------------------------------------------------------|------|-----|------|--------|
| brought forward    |                                                                                                      |      |     |      |        |
| B815.07<br>(LI/SC) | Point repairs                                                                                        |      |     |      |        |
|                    | B815.07.01 Point repair by replacing pipe                                                            | No.  | 35  |      |        |
| (LI/SC)            | (Extra over item 302.01 if pipe is replaced during point repair as specified)                        | No.  | 10  |      |        |
| B815.08<br>(LI/SC) | B815.07.02 Point repair of backfall in new pipe                                                      |      |     |      |        |
| B815.09<br>(LI/SC) | Breaking and removing concrete surrounded erf connections                                            | m3   | 5   |      |        |
| B815.10            | Reinstate Back-Drop manholes to suit HDPE pipe.                                                      | No.  | 1   |      |        |
| B815.11            | Re-rounding existing pipe                                                                            | m    | 10  |      |        |
|                    | Material testing                                                                                     |      |     |      |        |
|                    | B815.11.01 Control test for E - Modulus                                                              | No.  | 1   |      |        |
| B815.12<br>(LI/SC) | Removal / clearing of obstructions over launch or exit pits or sewer lateral connections and replace | Hrs  | 25  |      |        |
| B815.13            | Connect existing sewer line to newly laid sewers.                                                    |      |     |      |        |
|                    | B815.13.01 For newly laid sewer of 160mm OD                                                          | No.  | 25  |      |        |
|                    | B815.13.02 For newly laid sewer of 200mm OD                                                          | No.  | 1   |      |        |
|                    | B815.13.03 For newly laid sewer of 250mm OD                                                          | No.  | 1   |      |        |
|                    | B815.13.04 For newly laid sewer of 280mm OD                                                          | No.  | 1   |      |        |
|                    | B815.13.05 For newly laid sewer of 315mm OD                                                          | No.  | 5   |      |        |
|                    | B815.13.06 For newly laid sewer of 355mm OD                                                          | No.  | 1   |      |        |
|                    | B815.13.07 For newly laid sewer of 400mm OD                                                          | No.  | 1   |      |        |
|                    | B815.13.08 For newly laid sewer of 450mm OD                                                          | No.  | 1   |      |        |
|                    | B815.13.09 For newly laid sewer of 560mm OD                                                          | No.  | 1   |      |        |
|                    | B815.13.10 For newly laid sewer of 630mm OD                                                          | No.  | 1   |      |        |
| B815.14<br>(LI/SC) | Breaking of concrete surfaces & reinstating with 25 MPa concrete to the original state               | m2   | 25  |      |        |
| B815.15<br>(LI/SC) | Reinstating existing brickwork pavement according to specifications                                  | m2   | 25  |      |        |
| B815.16            | Installation of CIPP Liner                                                                           |      |     |      |        |
|                    | B815.16.01 Structural liner for diameters                                                            |      |     |      |        |
|                    | B815.16.01.01 160mm                                                                                  | m    | 250 |      |        |
|                    | B815.16.01.02 Greater than 160mm up to 200mm                                                         | m    | 80  |      |        |
|                    | B815.16.01.03 Greater than 200mm up to 300mm                                                         | m    | 80  |      |        |
|                    | B815.16.01.04 Greater than 300mm up to 400mm                                                         | m    | 80  |      |        |
|                    | B815.16.01.05 Greater than 400mm up to 500mm                                                         | m    | 80  |      |        |
|                    | B815.16.02 Non-structural liner for diameters                                                        |      |     |      |        |
|                    | B815.16.02.01 160mm                                                                                  | m    | 150 |      |        |
|                    | B815.16.02.02 Greater than 160mm up to 200mm                                                         | m    | 50  |      |        |
|                    | B815.16.02.03 Greater than 200mm up to 300mm                                                         | m    | 50  |      |        |
|                    | B815.16.02.04 Greater than 300mm up to 400mm                                                         | m    | 50  |      |        |
|                    | B815.16.02.05 Greater than 400mm up to 500mm                                                         | m    | 50  |      |        |
| carry forward      |                                                                                                      |      |     |      |        |
| brought forward    |                                                                                                      |      |     |      |        |
| B815.17            | Service reconnections to newly laid sewers by CIPP Liners                                            | No   | 25  |      |        |

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## SERIES 8 : REHABILITATION/ REPLACEMENT OF SEWERS BY TRENCHLESS METHODS : SECTION B815

| Item                             | Description                                               | Unit | Qty | Rate | Amount |
|----------------------------------|-----------------------------------------------------------|------|-----|------|--------|
| B815.18                          | Installation of "Top Hat" sections at service connections | No   | 5   |      |        |
| B815.19                          | Point repair by short sections of CIPP                    |      |     |      |        |
|                                  | B815.19.01 CIPP Short sections straight                   | No   | 5   |      |        |
|                                  | B815.19.02 CIPP short sections with lateral pretrution    | No   | 5   |      |        |
| Total carried forward to Summary |                                                           |      |     |      |        |

**PART C2: PRICING DATA**

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**PART C2: PRICING DATA: SUMMARY**

|                                                                            |  |
|----------------------------------------------------------------------------|--|
| SERIES 0: GENERAL                                                          |  |
| SECTION 001: GENERAL REQUIREMENTS AND CHARGES                              |  |
| SECTION 002: ENGINEERS ACCOMMODATION                                       |  |
| SERIES 1: ANCILLARY WORKS                                                  |  |
| SECTION 101 : SITE CLEARING AND GRUBBING                                   |  |
| SECTION 102 : ACCOMMODATION OF TRAFFIC                                     |  |
| SERIES 2 : EARTHWORKS                                                      |  |
| SECTION 201 : GENERAL                                                      |  |
| SECTION 202 : TRENCHING                                                    |  |
| SERIES 3 : SEWERS                                                          |  |
| SECTION 302 : CONSTRUCTION                                                 |  |
| SERIES 5 : DRAINAGE AND EROSION PROTECTION                                 |  |
| SECTION 503 : KERBING AND CHANNELING                                       |  |
| SERIES 6 : ROAD AND PARKING AREAS                                          |  |
| SECTION 601 : GRAVEL PAVEMENT LAYERS                                       |  |
| SECTION 606 : BASE AND ASPHALT SURFACING                                   |  |
| SECTION 608 : REHABILITATION AND OVERLAY CONSTRUCTION                      |  |
| SECTION 609 : SEGMENTED PAVING                                             |  |
| SERIES 8: SPECIFIC WORKS                                                   |  |
| SECTION B810 : CLEANING OF SEWERS                                          |  |
| SECTION B811: CCTV INSPECTION OF SEWERS                                    |  |
| SECTION B815 : REHABILITATION/ REPLACEMENT OF SEWERS BY TRENCHLESS METHODS |  |
| (a) SUBTOTAL (CONTRACT PRICE)                                              |  |
| (b) SUBTOTAL: CONTINGENCIES 10% OF (a)                                     |  |
| (c) SUBTOTAL: ESCALATION ALLOWANCE 5% OF [(a) + (b)]                       |  |
| <b>TOTAL = (a) + (b) + (c) = TENDER AMOUNT</b>                             |  |
| VAT @ 15%                                                                  |  |
| <b>TENDER AMOUNT</b> carried forward to Form of Offer - Part C1            |  |